

Patent claims:

1. A highly concentrated oil-in-water emulsion of organopolysiloxanes, which contains
5 (A) at least 45% by weight of organopolysiloxane which, in addition to the elements Si, O, C and H, also contains elements which are selected from N and S,
(B) emulsifier and
10 (C) water,
the highly concentrated emulsion having a pH of at least 7.5 and a viscosity at 25°C of not more than 50 000 mPa·s.

15 2. The emulsion as claimed in claim 1, in which the organopolysiloxanes (A) are composed of units of the general formula I



in which

R is a hydrogen atom or a monovalent organic radical which contains elements which are selected from O, C and H,

25 R¹ is a hydrogen atom, an alkyl radical or an alkoxyalkyl radical,

Y is a monovalent, SiC-bonded radical which contains elements which are selected from O, C and H and additionally contains elements
30 which are selected from N and S,

a is 0, 1, 2 or 3,

b is 0, 1 or 2 and

c is 0, 1, 2 or 3,

35 with the proviso that the sum of a, b and c in the units of the general formula (I) is less than or equal to 3 and at least one radical Y is contained per molecule.

3. The emulsion as claimed in claim 2, in which the

radicals Y are those of the general formula II



5 in which

x is 0 or an integer from 1 to 10,

R² is hydrogen, an alkyl radical, a cycloalkyl radical or a radical of the formulae -C(=O)-R or -CH₂-CH₂-C(=O)-O-R and

10 R³ is a divalent hydrocarbon radical having 1 to 12 carbon atoms per radical and

R has the meaning mentioned above therefor.

4. The emulsion as claimed in any of claims 1 to 3,
15 in which the emulsifiers (B) are nonionic emulsifiers.

5. The emulsion as claimed in any of claims 1 to 4,
which contains emulsifier (B) in amounts of from 1
20 to 60% by weight, based on the total weight of organopolysiloxane (A).

6. The emulsion as claimed in any of claims 1 to 5,
which has further organosilicon compounds as
25 component (D).

7. The emulsion as claimed in claim 6, in which the organosilicon compounds (D) are selected from silanes, silicone oils which contain no elements N and S and silicone resins.
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8. A process for the preparation of emulsions having a narrow particle size distribution, in which highly concentrated oil-in-water emulsions of organopolysiloxanes which contain
35 (A) at least 45% by weight of organopolysiloxane which, in addition to the elements Si, O, C and H, also contains elements which are selected from N and S,

(B) emulsifier and

(C) water,

the highly concentrated emulsions having a pH of
at least 7.5 and a viscosity at 25°C of not more

5 than 50 000 mPa·s,

are diluted without or only with slight shearing.